1251.01

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

STATE PROJECT REFERENCE NO. TCP-1 REV U-4421

PLAN FOR PROPOSED TRAFFIC CONTROL, MARKING & DELINEATION

U-4421 CUMBERLAND

ROADWAY STANDARD DRAWINGS

PROJECT SERVICES UNIT-N.C. DEPARTMENT OF TRANSPORTATION-RALEIGH, N.C., DATED JULY 2006 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1101.02	TEMPORARY LANE CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW PANELS
1130.01	DRUMS
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGERS
1165.01	TRUCK MOUNTED IMPACT ATTENUATOR
1180.01	SKINNY - DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES & OFFSETS
1205.02	PAVEMENT MARKINGS - 2 LANE & MULTILANE ROADWAYS
1205.04	INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.06	PAVEMENT MARKINGS - THRU LANE DROPS
1205.08	PAVEMENT MARKINGS - SYMBOLS & WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1250.01	PAVEMENT MARKER SPACING
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	TCP-5	PHASE I, CUMBERLAND RD. CONSTRUCTION / WEDGING
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	TCP-7	PHASE II, EB CUMBERLAND RD. CONSTRUCTION
	TCP-8	PHASE II, PAVING FINAL LAYER WB CUMBERLAND RD.
	TCP-9	WORK ZONE WARNING SIGNS (TWO-WAY UNDIVIDED)
	PM-1 THRU PM-5	PAVEMENT MARKING AND FINAL PAVEMENT MARKING SCHEDULE

LEGEND

GENERAL

DIRECTION OF TRAFFIC FLOW

NORTH ARROW

— PROPOSED PVMT. ----- EXIST. PVMT.

WORK AREA

REMOVAL OF EXISTING PAVEMENT

TRAFFIC CONTROL DEVICES

T TYPE I BARRICADE

TYPE III BARRICADE

▲ CONE

SKINNY DRUM

FLASHING ARROW PANEL (TYPE C)

— STATIONARY SIGN

PORTABLE SIGN

STATIONARY OR PORTABLE SIGN

WARNING FLAGS

- CRASH CUSHION

CHANGEABLE MESSAGE SIGN

TRUCK MOUNTED IMPACT ATTENUATOR (TMIA)

POLICE

FLAGGER

PAVEMENT MARKINGS

CRYSTAL/CRYSTAL PAVEMENT MARKER

YELLOW/YELLOW PAVEMENT MARKER

CRYSTAL/RED PAVEMENT MARKER

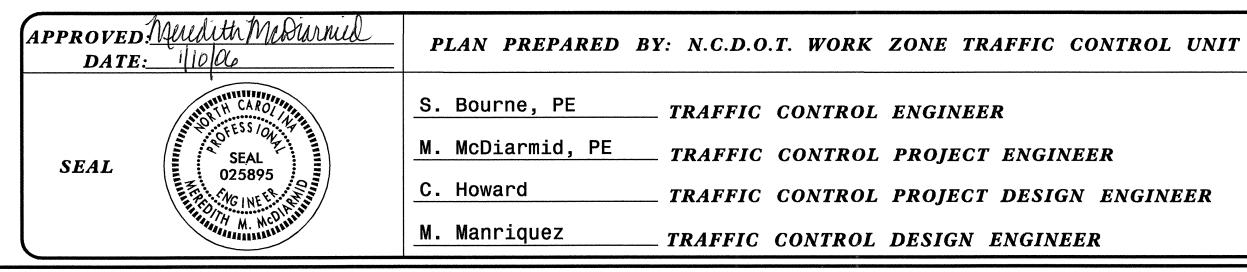
PAVEMENT MARKING SYMBOLS

GRAY EXISTING

SYMBOL	DESCRIPTION	PAY ITEM QU BREAKDO		TOTAL QUA	NTIT
	TEMPORARY PAVEMENT MARKINGS			·	
	DATNIT (AU)				
PA	PAINT(4") WHITE EDGELINE (2X)	22400	LF		
PC	10 FT. WHITE SKIP (2X)	1928	LF		
PD	2 FT. WHITE MINISKIP (2X)	21	LF		
PF	10 FT. YELLOW SKIP (1X)	535	LF		
PH	YELLOW SINGLE CENTER (1X)	2140	LF		
ΡΙ	YELLOW DOUBLE CENTER (2X)	30400	LF		
			TOTAL	57424	LF
	COLD APPLIED PLASTIC (24") Type4 - Removable Tape				
C5	WHITE STOPBAR	40	LF		
			TOTAL	40	LF
	COLD APPLIED PLASTIC (4") Type4 - Removable Tape				
CI	YELLOW DOUBLE CENTER	90	LF		
			TOTAL	90	LF
	MARKERS				
	TEMPORARY RAISED PAVEMENT MARKERS				
MK	YELLOW	50	EA		
			TOTAL	50	EA

RAISED PAVEMENT MARKERS (TEMPORARY & PERMANENT)

TEMP. PAVEMENT MARKING SCHEDULE



GENERAL NOTES

LOCAL NOTES

ADAPT THE TRAFFIC CONTROL PLANS, WHEN DIRECTED BY THE ENGINEER. TO MEET FIELD CONDITIONS TO PROVIDE SAFE AND EFFICIENT TRAFFIC MOVEMENT. CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS AND ROADWAY DETAILS ARE NOT ATTAINABLE, OR RESULT IN DUPLICATE, OR UNDESIRED OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING OR REMOVAL OF DEVICES.

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT, EXCEPT WHEN OTHERWISE NOTED IN THE PLAN, OR DIRECTED BY THE ENGINEER.

TIME RESTRICTIONS

A) DO NOT CLOSE OR NARROW TRAVEL LANES AS FOLLOWS:

ROAD NAME

DAY AND TIME RESTRICTIONS

SR 1141 Cumberland Rd

7:00am to 9:00am Monday-Friday 4:00pm to 6:00pm Monday-Friday

LANE AND SHOULDER CLOSURE REQUIREMENTS

- B) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED, OR AS DIRECTED BY THE ENGINEER.
- WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 40 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.
- WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO AN UNDIVIDED FACILITY AND WITHIN 5 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO A DIVIDED FACILITY AND WITHIN 10 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL OF AN UNDIVIDED OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRAFFIC CONTROL PLANS. ROADWAY STANDARD DRAWINGS OR AS DIRECTED BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.

PAVEMENT EDGE DROP OFF REQUIREMENTS

BACKFILL AT A 6:1 SLOPE UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT IN AREAS ADJACENT TO AN OPENED TRAVEL LANE THAT HAS A DROP-OFF AS FOLLOWS:

BACKFILL DROP-OFFS THAT EXCEED 2 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS OF 45 MPH OR GREATER.

BACKFILL DROP-OFFS THAT EXCEED 3 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS LESS THAN 45 MPH.

BACKFILL WITH SUITABLE COMPACTED MATERIAL, AS APPROVED BY THE ENGINEER, AT NO EXPENSE TO THE DEPARTMENT.

DO NOT EXCEED A DIFFERENCE OF 2 inches IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC. INSTALL ADVANCE WARNING "UNEVEN LANES" SIGNS (W8-11) 500 FT IN ADVANCE AND A MINIMUM OF ONCE EVERY MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

H) NOTIFY THE ENGINEER TWENTY ONE (21) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

SIGNING

- INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 100 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.
- PROVIDE PERMANENT SIGNING.
- ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

TRAFFIC CONTROL DEVICES

- L) WHEN USING ROADWAY STANDARD NO. 1101.02 SHEET 1 OF 9, SKINNY DRUMS MAY BE USED IN LIEU OF CONES ON SR 1141 CUMBERLAND RD.
- SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER THAN TWICE THE POSTED SPEED LIMIT (MPH), EXCEPT 10 FT ON-CENTER IN RADII, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY, WHEN LANE CLOSURES ARE NOT IN EFFECT.
- PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY. STAGGER OR OVERLAP BARRICADES TO ALLOW FOR INGRESS OR EGRESS.
- O) PLACE SETS OF THREE DRUMS PERPENDICULAR TO THE EDGE OF THE TRAVELWAY ON 200 FT CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC. THESE DRUMS SHALL BE IN ADDITION TO CHANNELIZING DEVICES.

PAVEMENT MARKINGS AND MARKERS

INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE AS FOLLOWS:

ROAD NAME SR 1141 CUMBERLAND RD.

MARKING THERMOPLASTIC

MARKER PERMANENT RAISED

INSTALL TEMPORARY PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKERS ON INTERIM LAYERS OF PAVEMENT AS FOLLOWS:

ROAD NAME

SR 1141 CUMBERLAND RD.

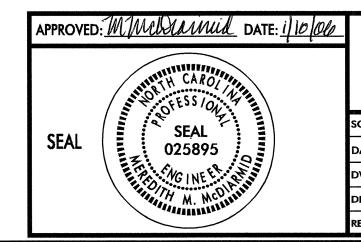
MARKING

PAINT

MARKER

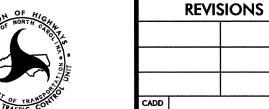
TEMPORARY RAISED

- S) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINE.
- T) REPLACE ANY PAVEMENT MARKINGS THAT HAVE BEEN DAMAGED BY THE END OF EACH DAY'S OPERATION.
- TRACE THE EDGE OF PROPOSED MONOLITHIC ISLANDS WITH THE PROPER COLOR PAVEMENT MARKING PRIOR TO INSTALLATION OF A PROPOSED MONOLITHIC ISLAND.
- V) PLACE AT LEAST TWO APPLICATIONS OF PAINT ON NEW ASPHALT WITH TEMPORARY TRAFFIC PATTERNS WHICH WILL REMAIN IN PLACE OVER THREE (3) MONTHS. PLACE ADDITIONAL APPLICATIONS OF PAINT UPON SUFFICIENT DRYING TIME, AS DETERMINED BY THE ENGINEER.



PROJECT NOTES

TE:	NONE	
E:	NOV 06	
G. BY:	MRM	
IGN BY:	MRM	
IEWED BY	· CBH	



PHASING

PRIOR TO ANY CONSTRUCTION OPERATION, PLACE ADVANCE WORK ZONE WARNING SIGNS IN ACCORDANCE WITH SHEET TCP-9

PHASE I

-INSTALL PROPOSED 18" PIPE ALONG PROPOSED WB CUMBERLAND ROAD FROM -Y3- STA. 11+00+/- TO -L-STA. 15+00+/-. INSTALL PROPOSED 15" PIPE ALONG WB CUMBERLAND ROAD FROM -L- STA. 15+00+/- TO -L- STA. 20+65+/- AND FROM -L- STA. 21+85+/- TO -L- STA. 25+30+/-. (SEE SHEET TCP-4 AND TCP-5)

NOTE: MAINTAIN ACCESS AT ALL TIMES DURING INSTALLATION OF 18' AND 15" PIPE FOR DRIVEWAYS USING FLAGGERS AS NEEDED. DO NOT LEAVE OPEN CUTS ADJACENT TO DRIVEWAYS UNATTENDED.

-BEGIN GRADING AND CONSTRUCTION, UP TO EDGE AND ELEVATION OF EXISTING -Y3- AND WB/EB CUMBERLAND ROAD USING ROADWAY STANDARD DRAWING 1101.02 SHEET 1 OF 9 FROM:

-L- STA. 10+00+/- TO -L- STA. 29+00+/-

STEP 2:

COMPLETE STEP 2, A) AND B) IN A CONTINUOS MANNER.

- A) REMOVE EXISTING CENTER LINE ALONG CUMBERLAND ROAD AND PLACE TEMPORARY PAVEMENT MARKINGS (PAINT) AND MARKERS FOR A PROPOSED TEMPORARY TWO LANE-TWO WAY TRAFFIC PATTERN USING ROADWAY STANDARD 1101.02 SHEET 1 OF 9 AND FLAGGERS AT INTERSECTIONS (SEE SHEETS TCP-4, TCP-5)
- B) SHIFT WB AND EB TRAFFIC INTO A TWO LANE-TWO WAY TRAFFIC PATTERN. (SEE SHEET TCP-4, TCP-5, AND TYPICAL 1 & 2)

NOTE: STEP 2, A) AND B) MAY BE COMPLETED PRIOR TO STEP 1 IF APPROVED BY THE ENGINEER.

STEP 3:

-CONSTRUCT PROPOSED WB CUMBERLAND ROAD UP TO THE FINAL LAYER OF INTERMEDIATE COURSE, CURB/GUTTER USING ROADWAY STANDARD 1101.02 SHEET 1 OF 9 FROM: (SEE SHEETS TCP-4, TCP-5, AND TYPICAL 1 & 2)

-L- STA. 10+00+/- TO -L- STA. 15+50+/-

-UNDER TRAFFIC WEDGE PROPOSED CUMBERLAND ROAD UP TO THE FINAL LAYER OF INTERMEDIATE COURSE INCLUDING WB CURB/GUTTER USING ROADWAY STANDARD DRAWING 1101.02 1 OF 9. PLACE CENTER LINE MARKING (PAINT) AT THE END OF EACH WORK DAY FROM: (SEE SHEETS TCP-4, TCP-5 AND TYPICAL 1 & 2 AND GENERAL NOTE G ON SHEET TCP-2)

-L- STA. 15+50+/- TO -L- STA. 29+00+/-

STEP 5:

COMPLETE STEP 5, A) AND B) IN A CONTINUOS MANNER.

- A) USING ROADWAY STANDARD DRAWING 1101.02 SHEET 1 OF 9, REMOVE CONFLICTING MARKINGS ALONG -Y3- AND AT THE INTERSECTION OF -L- CUMBERLAND RD AND NC 59 AND PLACE TEMPORARY MARKINGS (PAINT) AND MARKERS ON NEWLY CONSTRUCTED WB CUMBERLAND ROAD FOR A TWO LANE-TWO WAY TRAFFIC PATTERN AND TIE IN WITH EXISTING MARKINGS USING FLAGGERS. (SEE TCP-6, TCP-7 AND TYPICAL 3)
- B) USING FLAGGERS AT INTERSECTIONS, SHIFT EB AND WB TRAFFIC ONTO NEWLY CONSTRUCTED WB CUMBERLAND ROAD INTO A TWO LANE-TWO WAY TRAFFIC PATTERN. (SEE TCP-6 AND TCP-7)

PHASE II

STEP 1: -INSTALL 15" PIPE ALONG EB CUMBERLAND ROAD FROM -L- STA. 20+87+/- TO -L- STA. 24+55+/-. CLOSE ONLY TWO CUMBERLAND BAPTIST CHURCH ENTRANCES AT A TIME WHEN INSTALLING 15" PIPE. LEAVE ALL ENTRANCES TO CUMBERLAND BAPTIST CHURCH OPEN ON SUNDAYS FROM 6:00AM TO 10:00PM. (SEE SHEET TCP-7)

STEP 2: -CONSTRUCT PROPOSED EB CUMBERLAND ROAD UP TO AND INCLUDING SURFACE COURSE, CURB/GUTTER FROM: (SEE SHEET TCP-6, TCP-7 AND TYPICAL 3)

-L- STA. 10+00+/- TO -L- STA. 29+00+/-

STEP 3: -PLACE TEMPORARY PAVEMENT MARKINGS (PAINT) ALONG EB CUMBERLAND ROAD FOR FINAL PATTERN FROM: (SEE SHEET TCP-7 AND TYPICAL 4) -L- STA. 10+00+/- TO -L- STA. 29+00+/-

-PLACE DRUMS ALONG EB CUMBERLAND ROAD TO CLOSE INSIDE LANE. (SEE SHEET TCP-8 AND TYPICAL 5)

STEP 4: -USING FLAGGERS, SHIFT EB TRAFFIC ONTO NEWLY CONSTRUCTED EB CUMBERLAND ROAD OUTSIDE LANE. AND PLACE DRUMS/CONES ALONG WB CUMBERLAND ROAD TO CLOSE INSIDE WB LANE. (SEE SHEET TCP-8 AND TYPICAL 5)

STEP 5: -CONSTRUCT PROPOSED 5" CONCRETE MONOLITHIC ISLAND FROM: (SEE SHEET TCP-8)

-Y3- STA. 15+21+/- TO -Y3- STA. 13+00+/-

-USING ROADWAY STANDARD 1101.02 SHEET 3 OF 9 PLACE SURFACE COURSE ON WB HARPER ROAD AND FINAL MARKINGS (THERMOPLASTIC) AND MARKERS (RAISED) ON NEWLY CONSTRUCTED EB & WB CUMBERLAND RD FROM:

-Y3- STA. 17+00+/- TO -L- STA. 29+00+/-

-TIE IN PROPOSED MARKINGS WITH EXISTING MARKINGS.

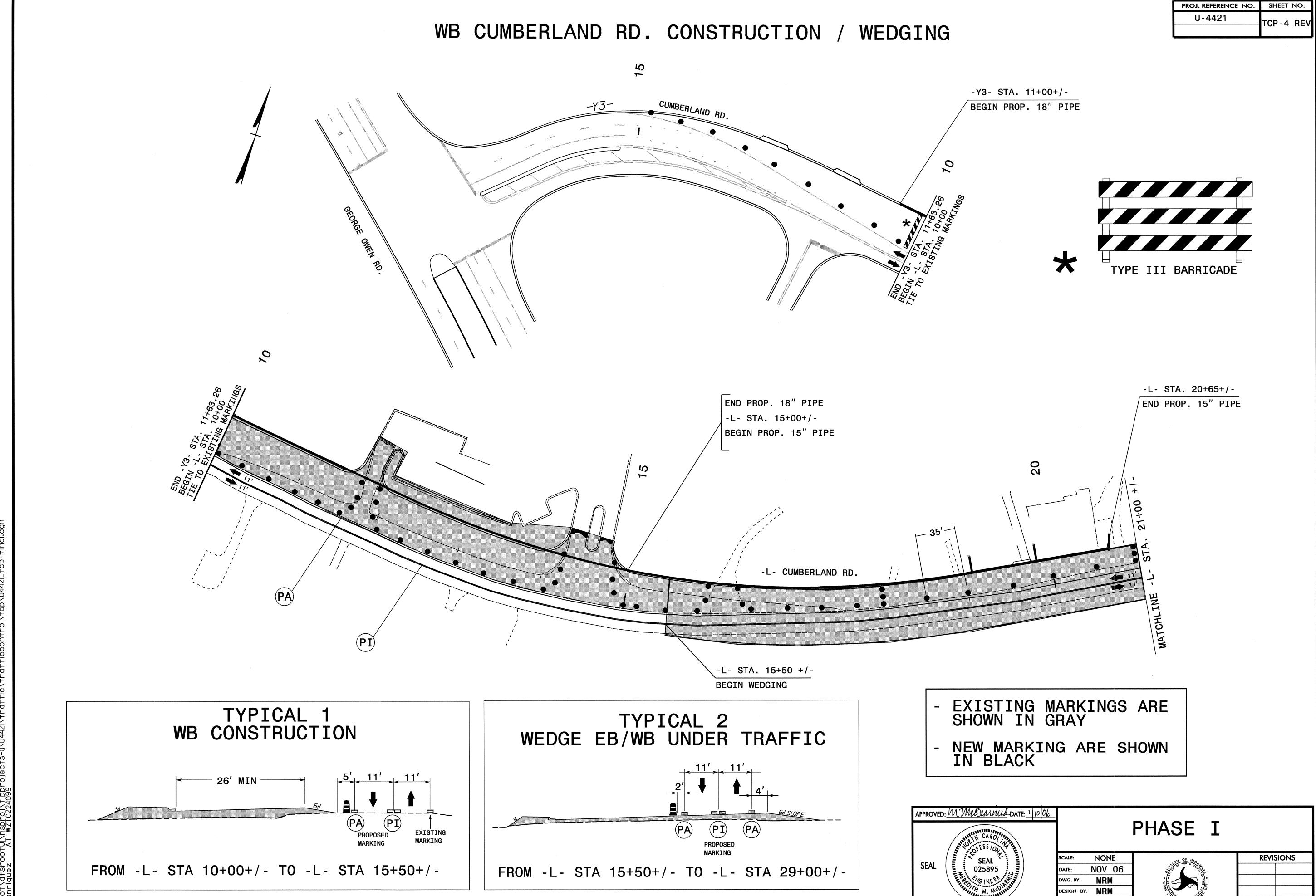
STEP 7: -REMOVE ALL TRAFFIC CONTROL DEVICES AND OPEN CUMBERLAND ROAD TO PROPOSED PATTERN. (SEE SHEETS PM-1 THRU PM-5)

> APPROVED: M. M. DATE: 1 10 06 SEAL

PHASING

NONE NOV 06 MRM DWG. BY: DESIGN BY: MRM REVIEWED BY: CBH

REVISIONS

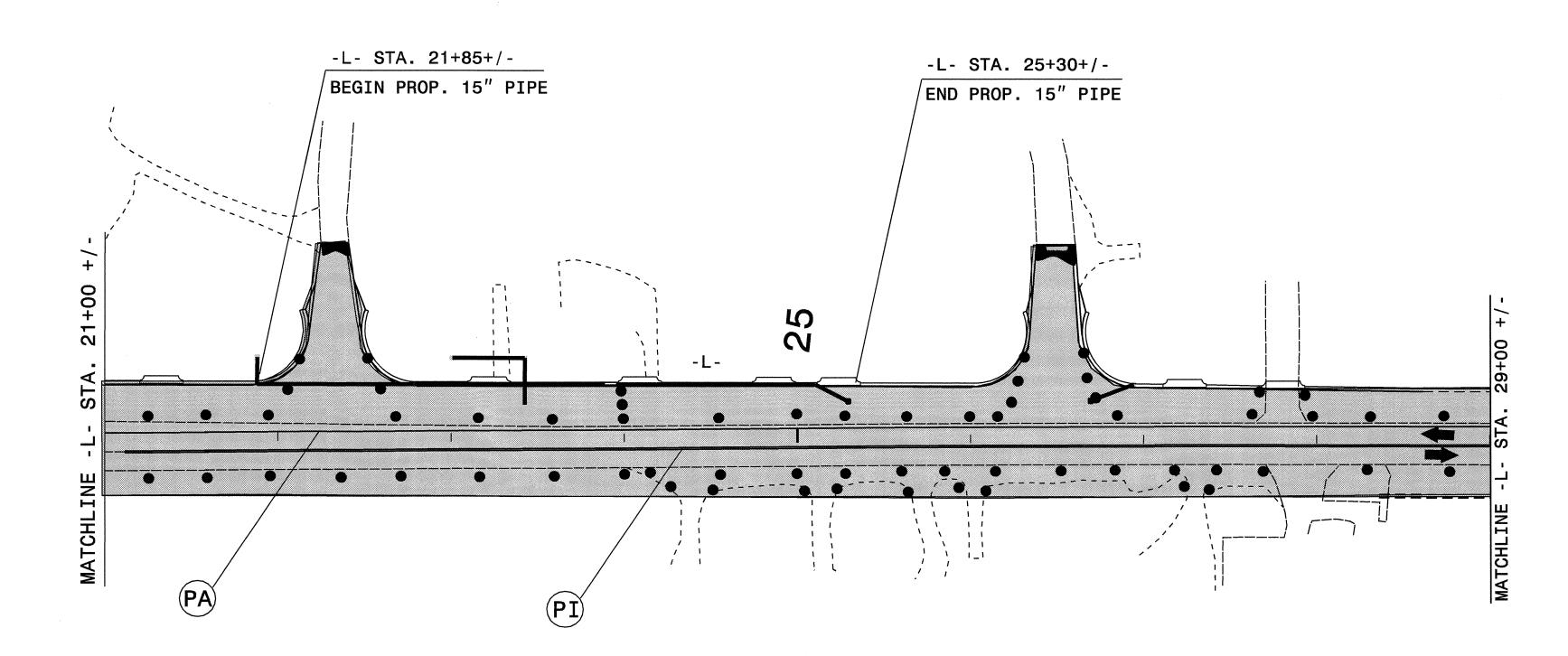


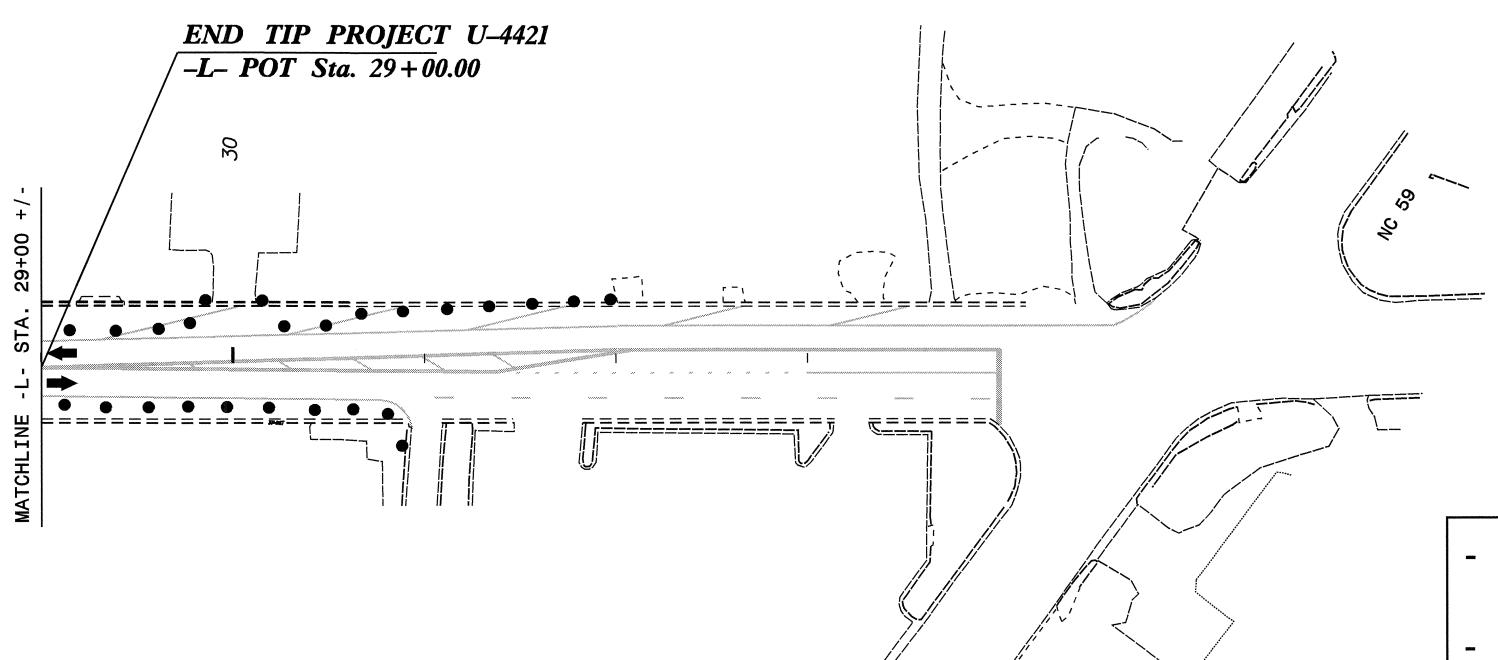
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PROJ. REFERENCE NO. SHEET NO.

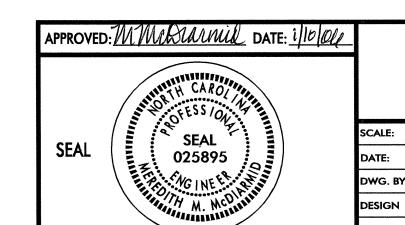
U-4421
TCP-5 REV

CUMBERLAND RD. CONSTRUCTION / WEDGING



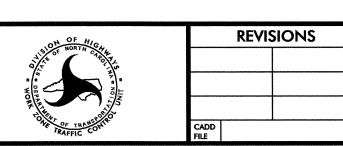


- EXISTING MARKINGS ARE SHOWN IN GRAY
- NEW MARKING ARE SHOWN IN BLACK

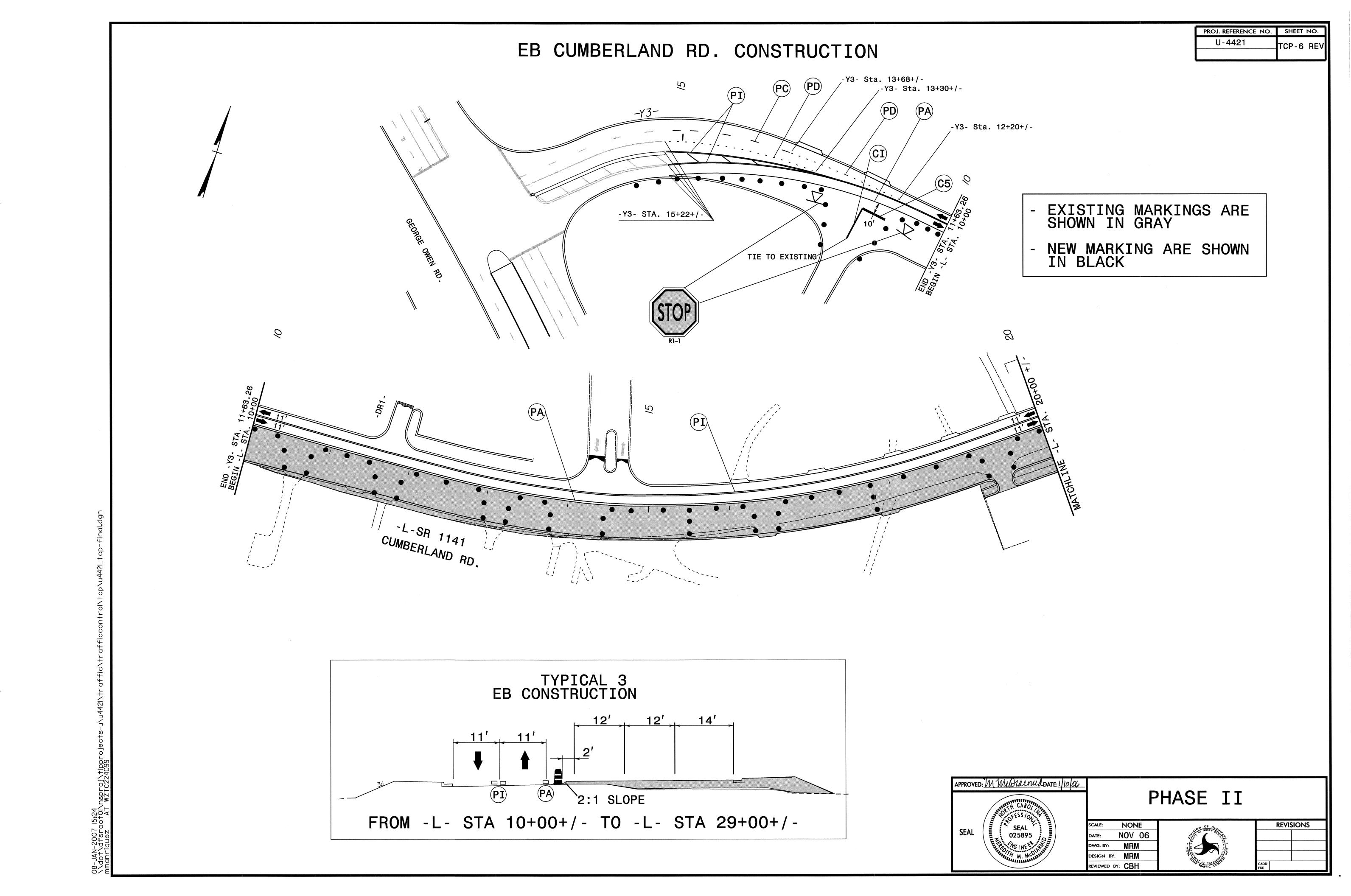


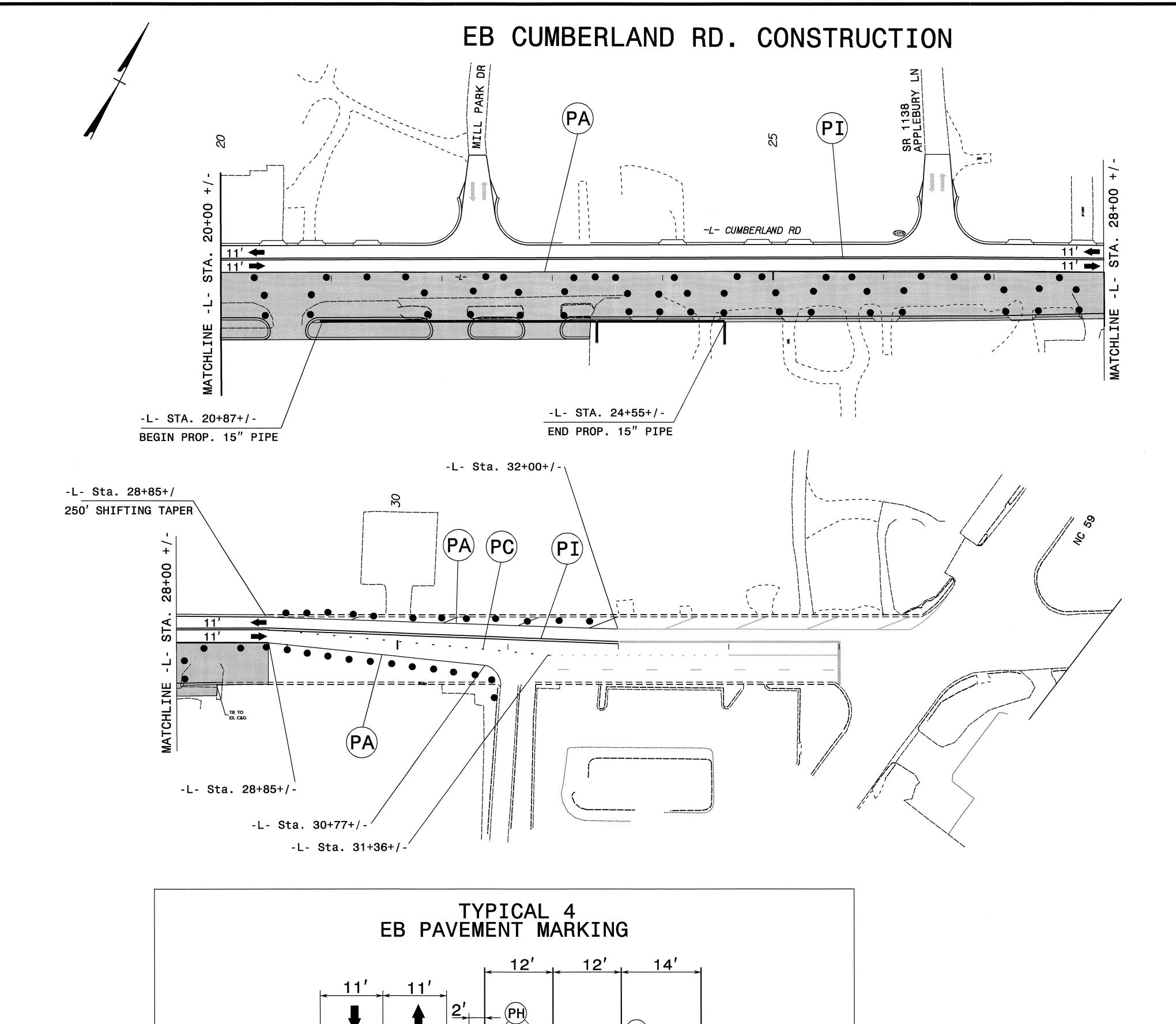
PHASE I		P	H	A	S	E	Ι
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ALE:	NONE	
TE:	NOV 06	
VG. BY:	MRM	
SIGN BY:	MRM	
VIEWED BY	: CBH	



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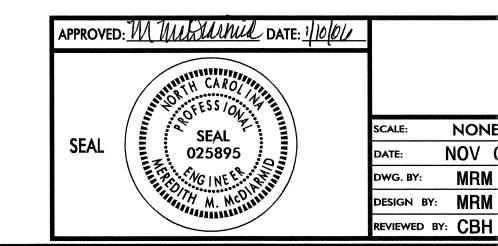




FROM -L- STA 10+00+/- TO -L- STA 29+00+/-

U-4421 TCP-7 REV

- EXISTING MARKINGS ARE SHOWN IN GRAY
- NEW MARKING ARE SHOWN IN BLACK



PHASE II	
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NONE
NOV 06
MRM

WE MRM

BY: CBH

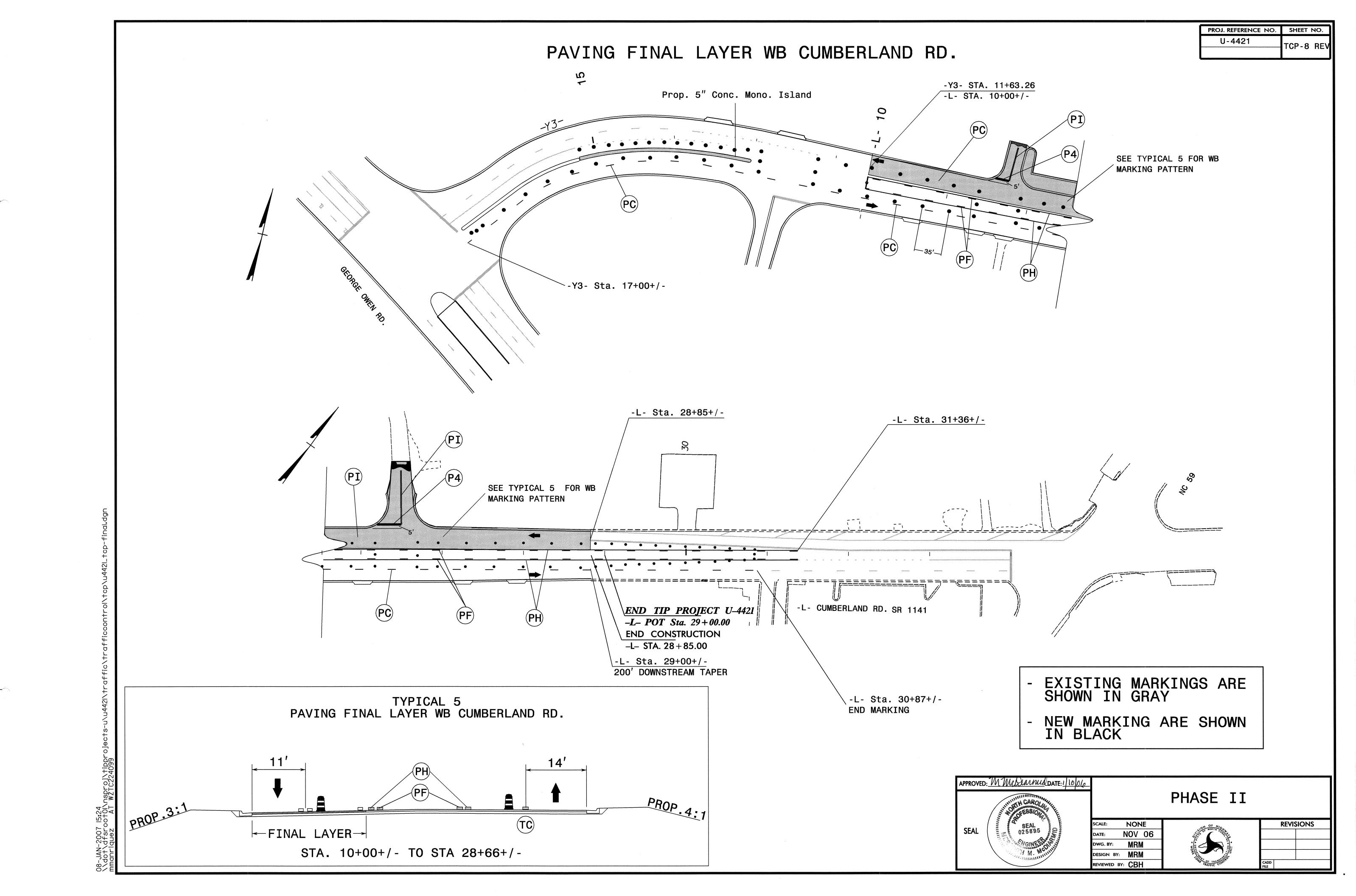
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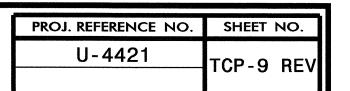
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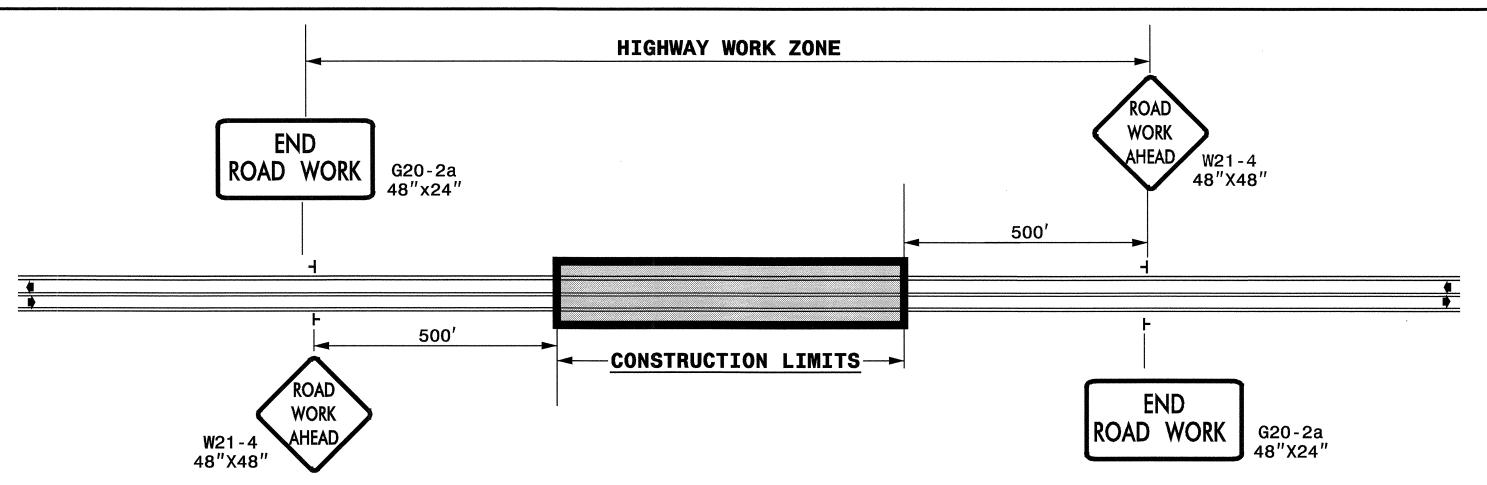




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TWO-WAY UNDIVIDED ** (L-LINES)

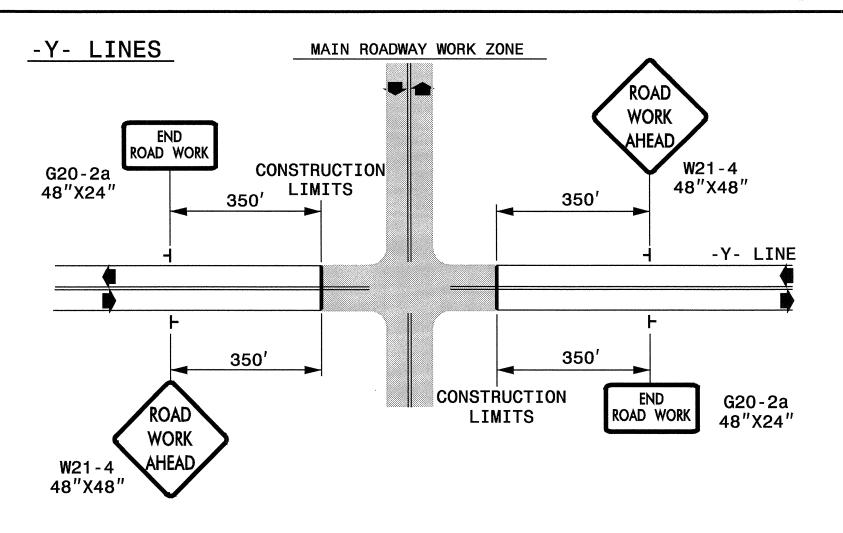


TRANSPORTATION CAROLINA HIGHWAYS NORTH 0F DIVISION 0F 0F STATE DEPT

FOR DED SIGNS

QΉQ

ROADWAYS INTERSECTING ALONG 2 WAY UNDIVIDED WORK ZONE (Y-LINES)



GENERAL NOTES

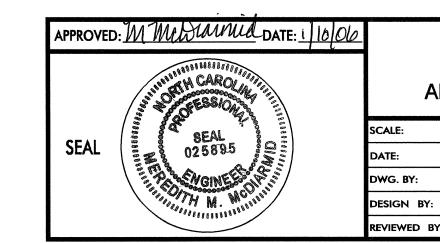
- USE FLUORESCENT ORANGE SHEETING (TYPE VII OR HIGHER) ON ALL ADVANCED WORK ZONE SIGNS.
- DO NOT INSTALL ADVANCE WARNING SIGNS MORE THAN 3 DAYS PRIOR TO BEGINNING OF WORK.
- SIGNS SHOWN ARE REQUIRED FOR WORK ZONES THAT WILL REMAIN IN EFFECT OVERNIGHT. FOR SHORT-TERM DAILY MAINTENANCE TYPE OPERATIONS, THIS SIGNING APPLICATION IS OPTIONAL; MAY USE ONLY APPLICABLE ROADWAY STANDARD DRAWINGS INSTEAD. HOWEVER, IF THIS SIGNING APPLICATION IS USED, SIGNS MAY BE PORTABLE MOUNTED.
- ALL SIGN SPACING DIMENSIONS ARE APPROXIMATE, FIELD ADJUST AS NECESSARY OR AS DIRECTED.
- USE 3LB STEEL U-CHANNEL POST OR 4" X 4" WOOD POST FOR ALL WORK ZONE SIGNS. 3LB STEEL U-CHANNEL POSTS MUST MEET THE REQUIREMENTS OF STANDARD SPECIFICATION SECTION 1094-1(B), MAY BE GALVANIZED STEEL, OR MAY BE PAINTED GREEN BY THE POST MANUFACTURER. SQUARE STEEL TUBING POSTS HAVING EQUIVALENT STRENGTH OF THE 3 LB STEEL U-CHANNEL POST ARE ALSO ACCEPTABLE FOR USE. ERECT SIGNS PER ROADWAY STANDARD DRAWING 1110.01. PAYMENT FOR WOOD POSTS, 3LB STEEL U-CHANNEL AND SQUARE STEEL TUBING POSTS WITH SIGNS WILL BE MADE ACCORDING TO STANDARD SPECIFICATION "WORK ZONE SIGNS" SECTION 1110.
- WHEN NECESSARY, USE SPLICING IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1110.01. REMOVE ENTIRE POST WHEN REMOVING SIGNS WITH SPLICED POSTS.
- DO NOT BACK BRACE SIGN SUPPORTS.
- ** TWO-WAY UNDIVIDED ADVANCE WARNING SIGN CONFIGURATION MAY BE USED ON URBAN MULTI-LANE FACILITIES WHERE CONDITIONS LIMIT THE USE OF DUAL MOUNTED SIGNS AS DETERMINED BY THE ENGINEER.

LEGEND

├ STATIONARY SIGN

■ DIRECTION OF TRAFFIC FLOW

SHEET 1 OF 1



DETAIL	_ DRAV	VING	FOR	TWO-V	VAY
UNDIVID	ED A	ND UF	RBAN	FREE'	WAYS
ADVANCED	WORK	ZONE	WAF	RNING	SIGNS

NONE	ON OF OLIGINEER A
	S. L. S. Marin B.
	- V
	THAMAS

	REVI	SIONS
<u>.</u>	7–98	10/01
4	10–98	03/04
	01/01	11/04
	CADD	<u> </u>